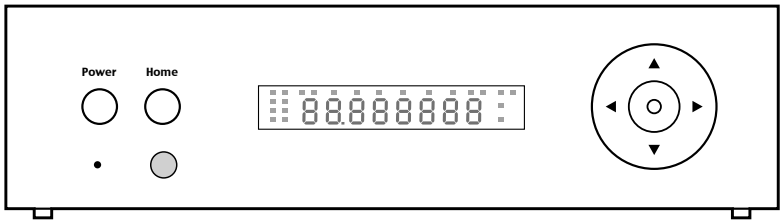
Technical description and operating instructions



MediaStation 6

Multimedia player with internet access and DVB-T-TV

Teufel

Contents

General notes and information **3**
Notice 3
Original packaging 3
Complaints 3
Contact 3
Proper use 3

1. Introduction **4**
1.1 Preface 4
1.2 Packing List 5
1.3 Cautions 5
1.4 Connection 6
1.5 Power On / Off 10
1.6 Menu Language 10
1.7 HDD-Format 11

2. About the Player **12**
2.1 Remote Control 12
2.2 Front Panel 15
2.3 Rear Panel 15
2.4 Side Panel 15

3. Setup Menu **16**
3.1 Changing TV Settings 16
3.2 Changing Audio Settings 17
3.3 Changing Video Settings 17
3.4 Changing Record Settings 18
3.5 Changing Network Settings 19
3.6 Changing System Settings 26
3.7 Miscellaneous 28

4. MAIN Menu **29**
4.1 DTV-Menu 29
4.2 AV IN Menu 31
4.3 Timer Record Menu 31
4.4 Browser Menu 33
4.5 Media Library 38
4.6 File Copy Menu 43
4.7 P2P Share Menu 44
4.8 IMS (Internet Multimedia Service) Menu 46
4.9 NAS Function 46
4.10 Host-Name 47

5. Upgrading the Firmware **48**

6. Appendixes **48**
6.1 Specifications 48
6.2 Frequently Asked Questions 49
6.3 Copyrights and Trademarks 51
6.4 GPL Statement 51

General notes and information

Notice

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Version 1.1, November 2010

Original packaging

If you wish to exercise your eight-week right of return, we ask that you be absolutely sure to hold onto the packaging. We can only accept the return of the device WITH THE ORIGINAL PACKAGING. Empty boxes are not available!

Complaints

In case of complaint we will need the following information to process your enquiry:

1. Invoice Number

Can be found on the sales slip (enclosed with the product) or on the order confirmation received as a PDF document, e.g. 4322543.

2. Serial number or batch number

Visible on the back side of the device, e.g. serial #: IL30009440122A-123

Many thanks for your support!

Contact

For questions, suggestions or any other issues please contact our customer service department:
Lautsprecher Teufel GmbH
Gewerbehof Buelowbogen · Buelowstrasse 66
10783 Berlin (Germany)
Tel.: 00800-200 300 400 (free of charge)
Fax: +49 (0)30 - 300 930 930
www.teufelaudio.com

Proper use

Only use the unit as described in these instructions. Any other use will be deemed as not in accordance with the instructions and may lead to damage to property or even persons. The manufacturer accepts no liability for damage caused by use not in accordance with the instructions.
The unit is intended for private use.

Before operating the unit for the first time please read the safety notes and operating instructions carefully. This is the only way to use all functions safely and reliably.
Keep the operating instructions safe and pass them on to anyone who may own the unit after you.

1. Introduction

1.1 Preface

Thank you very much for purchasing the product. We hope you will enjoy using it as a great home entertainment partner. This player has the following functionality.

A/V Output

- HDMI V1.3 for high-definition video and digital audio
- Composite & component video and stereo audio for analog audio-visual connection
- S/PDIF coaxial & optical interface for high-fidelity digital audio
- Adjustable video output resolution (NTSC, PAL, 480p, 576p, 720p, 1080i, 1080p)

Multimedia Playback

- Supports major audio, video and image file formats (1080p HD video decoding)
- Movie format: AVI/MKV/TS/TP/TRP/M2TS/MPG/MP4/M4V/MOV/VOB/ISO/IFO/DAT/WMV/ASF/RM/RMVB/FLV
- Music format: MP3/OGG/WMA/WAV/AAC/FLAC
- Photo format: HD JPEG/BMP/GIF/TIF/PNG
- Photo slide show with background music

DVB-T TV

- supports Digital Video Broadcasting Terrestrial (DVB-T) TV reception
- supports double-tuner, allow to watch other programs while recording
- supports Electronic Program Guide (EPG), Teletext and subtitle
- supports loop out the DVB-T signal received from Aerial.

Video Recording

- supports one button recording and scheduled recording, can easily record programs from DVB-T TV, DVD player, DV, etc., and save as MPEG-2 (.mpg, or .ts) format;
- supports time shifting function

Network Feature

- A/V streaming/transmission via Ethernet (10M/100M) & Wi-Fi (802.11b/g/n, optional)
- File sharing via Samba server
- A/V streaming via UPnP Media Server
- BitTorrent download (controlled and managed via web server)

File Copy

- Supports copying & moving files among Card, USB, HDD, and Network

USB 2.0 Support

- USB DEVICE port (for computer connection)
- USB HOST port x 2 (for USB storage devices)

Note: All the information contained in this manual was correct at the time of publication. However, as our engineers are always updating and improving the product, your device's software may have a slightly different appearance or modified functionality than presented in this manual.

1.2 Packing List

Teil	Anzahl
Player	1
A/V-cable	1
USB-cable	1
Remote control	1
Remote control battery	2
AC/DC adaptor	1
AC/DC adaptor power cord	1
User manual (printed)	1
USB-adaptor for 802.11b/g/n wireless LAN	optionally
DVB-T antenna	1

Note: The actual contents in the package might be different from the packing list in this manual.

1.3 Cautions

This player's design and manufacture has your safety in mind. In order to safely and effectively use this player, please read the following before usage.

1.3.1 Usage Cautions

User should not modify this player. If commercial hard disk is being used, the environmental temperature should be within +5 °C ~ +35 °C.

1.3.2 Power

The player's power voltage: DC 12V. When using this player, please connect the supplied AC adaptor or AC adaptor cable to the player's power jack. When placing the adaptor cable, make sure it can not get damaged or be subject to pressure. To reduce the risk of electric shock, unplug the adaptor first before cleaning it. Never connect the adaptor to the player in a humid or dusty area. Do not replace the adaptor or cable's wire or connector.

1.3.3 Radio Interference

- If not properly shielded, almost all electronic devices will get radio interference. Under some conditions, your player might get interference.
- The design of this player has followed the FCC/CE standard, and has followed the following rules:
  (1) This player may not cause harmful interference;
  (2) This player could accept some interference received including interference that may cause undesired operation.

1.3.4 Repair

If the player has a problem, you should take it to an appointed repair center and let the specialists do the repair, never repair the player yourself, you might damage the player or endanger yourself or your data.

1.3.5 Disposing of the Player

When you dispose of the player, be sure to dispose it appropriately. Some countries may regulate disposal of electrical device, please consult with your local authority.

1.3.6 Hard Disk Cautions

The player uses an internal hard disk for data storage, in normal case, format or repair is not required.
You should carefully read the < Frequently Asked Questions > chapter, and check our website for latest information before formatting the hard disk.

- Physical impact may create bad sector in the hard disk, you can use CHKDSK to fix the problem.
- All data stored in the player may be lost due to physical impact, electrical shock, power lost, HDD format etc. Please backup your data.

- It is suggested to do defragment after a long period of usage.
- Regularly backup the data in the hard disk so that it can be recovered in the event of data corruption or loss. Our company takes no responsibility for loss of data stored on the hard disk.

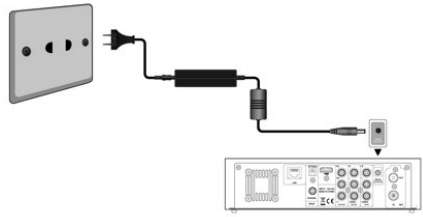
1.3.7 Others

When using this player, please do not let the player come into contact with water or other liquid, if water is accidentally spilled on the player, please use a dry cloth to absorb the spillage.
Electronic products are vulnerable, when using please avoid shaking or hitting the player, and do not press the buttons too hard.

- Do not let the player come into contact with water or other liquid.
- Do not disassemble the player, repair the player or change the design of the player, any damage done will not be included in the repair policy.
- Do not press the buttons of the player too hard.
- Avoid hitting the player with hard object, avoid shaking the player, and stay away from magnetic fields.
- During electrostatic discharge and the strong electromagnetic field, the product will malfunction, then unplug the power cable and the product will return to normal performance next time it is powered on.

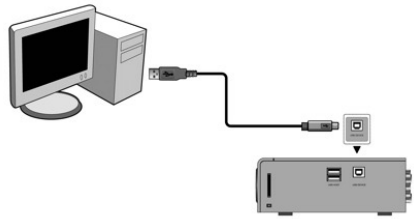
1.4 Connection

1.4.1 Connecting the Power Supply



1. Follow the picture and connect the AC adaptor to the player's DC IN jack.
2. Follow the picture and plug in the AC adaptor to the power outlet.

1.4.2 Connecting to a PC

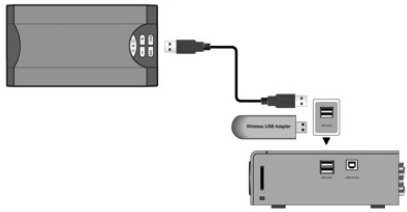


1. Make sure the player is powered on;
2. Plug in the squarish connector of the USB cable to this player's USB DEVICE port.
3. Plug in the rectangular connector of the USB cable to computer
   As soon as the USB cable is connected (device and PC/MAC are running), the prompt "Do you want to shut down in order to switch to the PC connection mode?" appears for a few seconds. You can confirm or cancel the process here. The MS 6 will restart if you confirm or after a few seconds. Afterwards, the TV will only display the start screen ("HDD DVR/Media Box") and the front display will always display "Loading". Then the device (HDD) appears as "Partition1", that is, as a data storage device on the PC/MAC.

Attention: The MS 6 itself can no longer be controlled since now only the internal hard-drive serves as a cache for the PC/MAC!

4. This way, you can access the contents of the MS6 hard-drive and use the hard-drive in the same manner as a standard external hard-drive.
5. For normal operation of the MS 6, the hard-drive must be disconnected from the PC/MAC as follows:
   a) **MAC**: Right click on "Partition 1" and then click "Eject partition".
   b) **PC**: As with a normal USB device, execute the command "Safely remove hardware and eject medium" by selecting the USB icon on the bar at the bottom.
6. Then remove the USB cable. The MS 6 will then restart and can be operated normally!

1.4.3 Connecting a USB Device

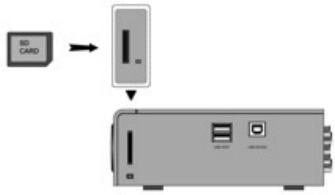


1. Make sure the player is powered on;
2. Plug in the USB stick or USB HDD etc. to the USB HOST port of this player.

In this way, you can browse contents on the USB device.

1.4.4 Connecting a Memory Card

Memory card can be used by inserting to the card slot

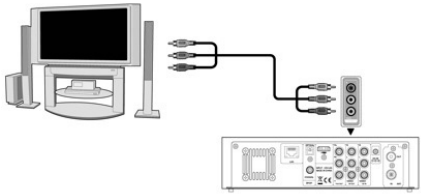


1. Follow the picture to insert the memory card to the card slot properly;
2. Insert the card by following the arrow pointer in the picture.

In this way, you can browse contents on the memory card.

1.4.5 Connecting to a TV

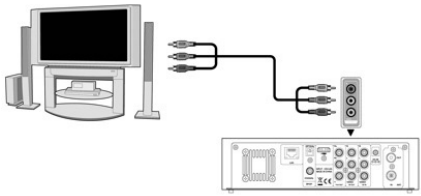
1.4.5.1 A/V IN



1. Follow the picture and plug in the 3 color connector to the player's A/V IN jack;
2. Follow the picture and plug in the 3 color connector to the A/V OUT jack of the TV/IPTV

In this way, you can record TV programs from the TV/IPTV Set-Top Box.

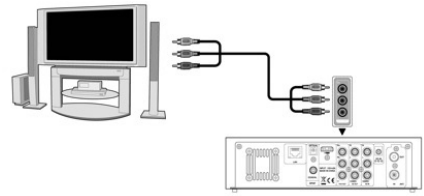
1.4.5.2 A/V OUT



1. Follow the picture and plug in the 3 color connector to the player's A/V OUT jack;
2. Follow the picture and plug in the 3 color connector to the TV's A/V IN jack.

In this way, you can enjoy the content in the player on TV or other display devices.

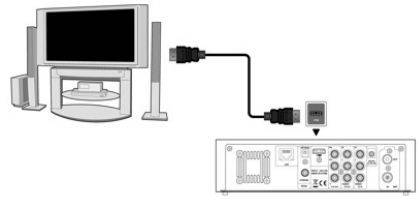
1.4.5.3 Y/Pb/Pr Component OUT



1. Follow the picture and plug in the 3 color connector to the player's Y/Pb/Pr jack;
2. Follow the picture and plug in the 3 color connector to the TV's Y/Pb/Pr jack.
   Audio Connection while using Y/Pb/Pr Video out:
   First method: use the audio output from the A/V OUT jack;
   Second method: use the audio output from the S/PDIF Coaxial or Optical jack.

In this way, you can also enjoy videos, music, and photos in the player on TV.

1.4.5.4 HDMI OUT

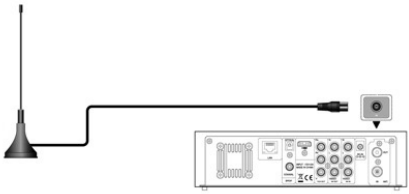


1. Follow the picture and plug one connector on your HDMI cable to the player's HDMI jack;
2. Follow the picture and plug the other connector on your HDMI cable to the TV's HDMI jack.

Note: The HDMI cable is an optional accessory sold separately.

In this way, you can have the highest quality video and audio via a single cable.

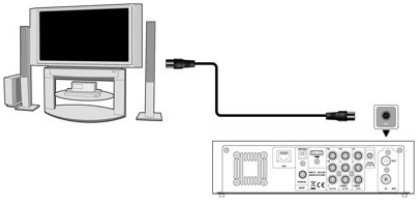
1.4.5.5 ANT. / RF IN



Follow the picture and plug a TV Aerial to the ANT. / RF IN socket;

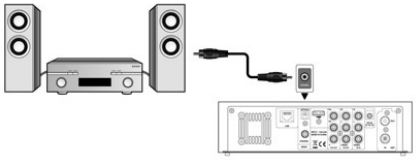
1.4.5.6 ANT. / RF OUT

1. Make sure the player is connecting to power supply;
2. Make sure a TV Aerial is connecting to the ANT. / RF IN socket;
3. Follow the picture and plug a TV cable to the ANT. / RF OUT socket then plug the cable to a TV or other TV receiver.



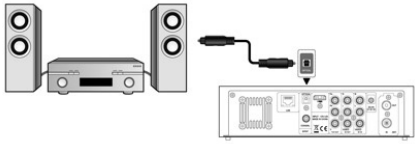
The player can loop out the DVB-T signal to other TV receiver device. In this way, you can watch the TV programs with another TV receiver while recording.

1.4.6 Connecting to an Digital Amplifier



1. Follow the picture and plug in the RCA connector on your coaxial cable to the player's S/PDIF Coaxial jack.

Or if you use optical fiber, please plug in the Toslink connector on your optical fiber to the player's S/PDIF Optical jack;



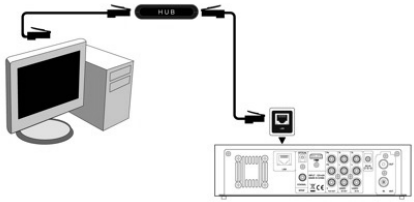
2. Follow the picture and plug in the other connector on your coaxial cable or optical fiber to the digital audio device (digital amplifier or decoder).

Note: Optical fiber and coaxial cable are not supplied.

In this way, you can enjoy powerful Dolby Digital, DTS, or MPEG sound. (Please refer to '3.2 Changing Audio Settings' for configuration)

1.4.7 Connecting to a LAN

To connect to a LAN (Local Area Network) you require a cat5, cat5e or cat6 network cable (not supplied).



1. Connect one of the crystal plugs on the cable to the player's RJ45 LAN socket;
2. Connect the other crystal plug on the cable to a RJ45 LAN port on your router, switch, or hub devices.

1.4.8 Connecting to a WLAN

1. Make sure the player is powered on;
2. (2) Plug the Wireless LAN USB Adapter (i.e. Wi-Fi USB Dongle) to the USB HOST port of the player.

Note: The Wi-Fi Dongle is an optional accessory sold separately. (Please refer to '3.5 Changing Network Settings' for more details about wireless setup)

1.5 Power On / Off

Power On

After connecting the DC IN jack and press the power button on the front panel, the player will soon enter the home screen, and the power indicator will turn blue.

Power Off

Press the power button on the front panel, the player will soon enter standby mode, and the power indicator will turn red. Then unplug the power cord to cut off the power supply.

1.6 Menu Language

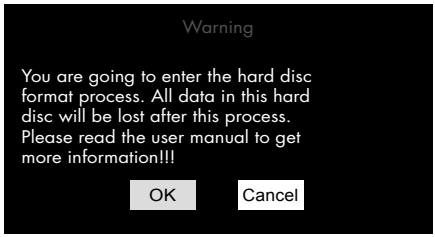
The system language of this player can be set to English or other languages. Change the language you wish in the setup menu, the selected language will take effect immediately.

1.7 HDD-Format

For users who wish to install a new SATA HDD into the player, please refer to the following procedures to format the hard disk on the player before usage.

Note: HDD format will remove all data stored on the hard disc drive. Please take care and backup your data in advance!

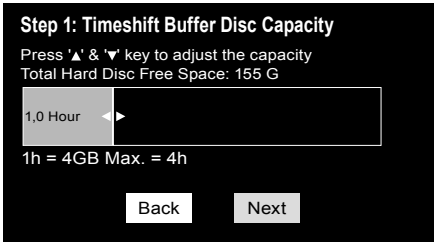
1. Select OK on the Warning page, press ENTER to confirm.


Warning
You are going to enter the hard disc format process. All data in this hard disc will be lost after this process. Please read the user manual to get more information!!!
OK
Cancel

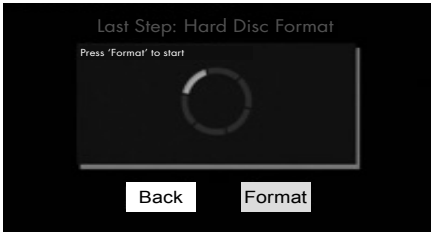
Note: This page can be also accessed via Setup->System->HDD Format menu

2. Press the **UP / DOWN** button to adjust the capacity of time shift buffer.

3. Press the left / right button to select Next, and the **ENTER** button to confirm


Step 1: Timeshift Buffer Disc Capacity
Press '▲' & '▼' key to adjust the capacity
Total Hard Disc Free Space: 155 G
1,0 Hour
1h = 4GB Max. = 4h
Back
Next

4. Select Format, press ENTER, and then hard disk format will start.

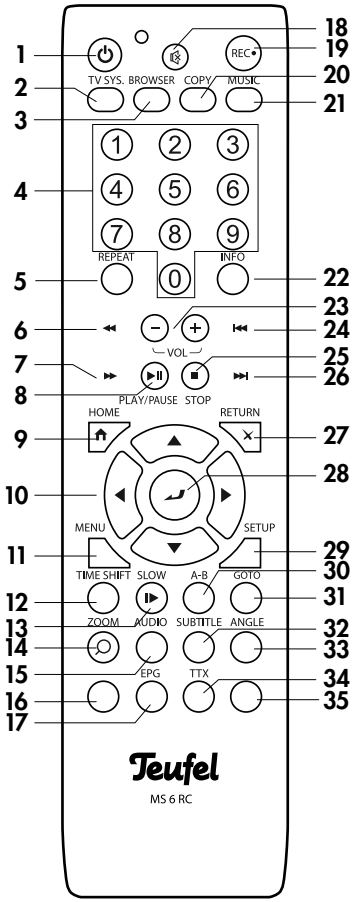


The formatting procedure will be finished within a few minutes. And then you can use the hard disk properly on the player.

2. About the Player

2.1 Remote Control

All procedures in this manual can be carried out using the remote control buttons. See the following for details on each button and its function:



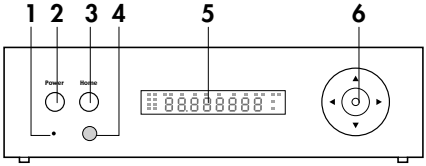
No	Taste	Funktion
1	STANDBY	Press to enter standby mode or wake up.
2	TV SYSTEM	Press to switch between NTSC, PAL, 480P, 576P, 720P, 1080I, and 1080P.
3	BROWSER	Press to enter the browser menu.
4	Numeric buttons	Press to enter numeric input when changing settings.
5	REPEAT	Press to set repeat option: One, All, (and Shuffle).
6	FR	Press to fast rewind the current playback. Press repeatedly to select speeds.
7	FF	Press to fast forward the current playback. Press repeatedly to select speeds.
8	PLAY/ PAUSE	Press to begin/pause the playback.
9	HOME	Press to enter the home screen.
10	Navigational buttons	Press the arrow buttons to select menu options, and the ENTER button to confirm.

No	Taste	Funktion
11	MENU	Press to activate tools menus: – Press to rename and delete files in the browser menu. – Press to add shortcuts for network access in My_Shortcuts in NET of the browser menu.
12	TIME SHIFT	Press to activate the time shift function. Time shift function allows you to pause live TV and resume the program from the point you left it. While paused, the program is recorded to the internal HDD as long as the space is available. Time shift mode remains active until you press the stop button.
13	SLOW	Press to play back in slow motion. Press the PLAY button to resume regular playback.
14	ZOOM	Press to zoom the image (photo or video).
15	AUDIO	Press to select an audio track.
16	Red	Press to select the files in browser menu. Press to add/delete scheduled recording in EPG menu.
17	EPG(Green)	Press to enter the Electronic Program Guide which displays an on-screen list of programs for the coming week when watching Digital Terrestrial TV. Press to add the selected files to the playlist under browser menu.
18	MUTE	Press to mute audio output, and press again to resume.
19	REC	Press to begin recording. Press repeatedly to set one touch recording (OTR) length (30 MIN. / 60 MIN. / 90 MIN. / 120 MIN. / 180 MIN. / 240 MIN. / Off).
20	COPY	Press to enter the file copy menu.
21	MUSIC	Press to start playing music in the music playlist.
22	INFO	Press to hide or display the information bar during playback.
23	VOL-/VOL+	Press to decrease/increase the volume.
24	PREV	Press to view the previous file / page up.
25	STOP	Press to stop playback.
26	NEXT	Press to view the next file / page down.
27	RETURN	Press to return to the previous screen while navigating menus.
28	ENTER	Press to select options in menus.
29	SETUP	Press to enter the setup menu.

No	Taste	Funktion
30	A-B	Press to set the beginning and end points of a section to repeat.
31	GOTO	Press to jump to a specific point on a title. Specify the point using Title, Chapter and Time.
32	SUBTITLE	Press to set subtitle options.
33	ANGLE	Press to change the view angle during DVD (with multi-angle) playback.
34	Blue	Press to activate sort function in channel set in TV setup menu.
35	TTX(Yellow)	Press to open Teletext OSD if it is available in the broadcasted stream of Digital Terrestrial TV.

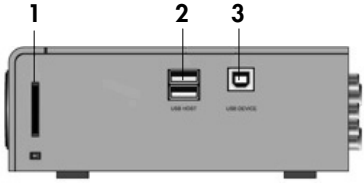
No	Taste	Funktion
31	GOTO	Press to jump to a specific point on a title. Specify the point using Title, Chapter and Time.
32	SUBTITLE	Press to set subtitle options.
33	ANGLE	Press to change the view angle during DVD (with multi-angle) playback.
34	Blue	Press to activate sort function in channel set in TV setup menu.
35	TTX(Yellow)	Press to open Teletext OSD if it is available in the broadcasted stream of Digital Terrestrial TV.

2.2 Front Panel



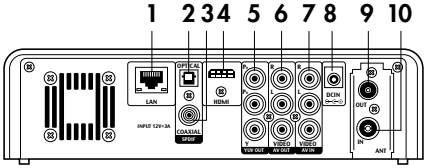
1	Power indicator
2	Power button & Standby button
3	Home button, press to return to main menu
4	Infrared receiver window
5	VFD Screen
6	Navigation buttons

2.4 Side Panel



1	Memory Card slot
2	USB HOST port (A-Type) x 2
3	USB DEVICE port (B-Type)

2.3 Rear Panel



1	RJ45 LAN socket
2	S/PDIF OPTICAL jack
3	S/PDIF COAXIAL-jack
4	HDMI-jack
5	Y/Pb/Pr OUT-jack
6	A/V OUT-jack
7	A/V IN-jack
8	DC In-jack
9	ANT./RF OUT-socket
10	ANT./RF IN socket

3. Setup Menu

The Setup menu allows you to personalize and configure the preferences for your player.

To select a Setup option:

1. Select the Setup icon on the home screen, or press the SETUP button on the remote control.

2. Use the LEFT/RIGHT navigational buttons to select an option, and then press ENTER.

There are seven Setup options, including **DTV**, **Audio**, **Video**, **REC**, **Network**, **System**, and **MISC**. Use the **UP/DOWN** navigational buttons to select a menu.
Press **ENTER** to confirm. Press **RETURN** to cancel and display the previous menu screen.

3.1 Changing TV Settings

Press the left / right button on the remote control to select the DTV tab from the menu bar.

3.1.1 TV-Region

- Select to set the region for Digital Terrestrial TV

3.1.2 Channel Scan

- Select to scan for available Digital Terrestrial TV channels

3.1.2.1 AUTO SCAN

In AUTO SCAN mode, the system will automatically scan for available DVB-T TV channels.

3.1.2.2 MANUAL SCAN

In MANUAL SCAN mode, you can select the CH name, Bandwidth, and Input Frequency. Use the navigational and numerical buttons on the remote control to select or input. Press the **ENTER** button to confirm.

3.1.3 Channel Set

• Select to edit channel information.

In this menu, you can edit the Name, and sequence for the DVB-T TV channels. Use the navigational buttons to select and modify the settings,and press the **ENTER** button to confirm. You can also press the blue button to select Sort.

3.2 Changing Audio Settings

Use this menu to configure audio settings

3.2.1 Night Mode

• Choose between Off / On / Comfort. If the option is turned on, the audio output volume will be decreased to make you more comfortable.

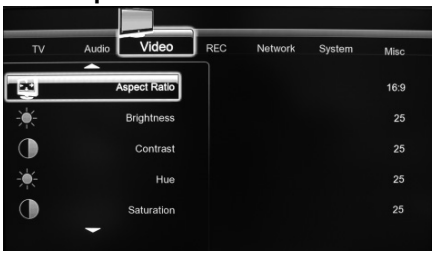
3.2.2 Digital Output

• Choose between HDMI LPCM / HDMI RAW / SPDIF LPCM / SPDIF RAW. In raw mode, Dolby Digital, DTS, or MPEG sound can be bypassed to the HDMI TV or Digital amplifier..

3.3 Changing Video Settings

Use this menu to configure video settings.

3.3.1 Aspect Ratio



- **Pan Scan 4:3**: Display a wide picture on the entire screen and cuts off the redundant portions. Select when a standard 4:3 TV is connected.
- **Letter Box 4:3**: Display a wide picture with two black borders on the top and bottom of 4:3 screen. Select when a standard 4:3 TV is connected.
- **16:9**: Compress the image to convert the whole image. Select when a 16:9 TV is connected.

3.3.2 Brightness

Adjust the level of brightness.

3.3.3 Contrast

Adjust the level of contrast.

3.3.4 Hue

Adjust the level of hue.

3.3.5 Saturation

Adjust the level of saturation.

3.3.6 TV SYSTEM

Select to adjust video output resolution: **NTSC / PAL / 480P / 576P / 720P 50HZ / 720P 60HZ / 1080I 50HZ / 1080I 60HZ / 1080P 50HZ / 1080P 60HZ.**

3.3.7 1080P 24FPS

Playback of commercially-available DVDs reaches 25 frames per second. If only 24 frames are available, the playback may appear somewhat choppy. If this is the case, turn the option "1080P 24FPS" ON.

3.3.8 Picture size

If you confirm this menu item with the ENTER KEY, a red frame will appear on the television.
Adjust the frame size with the arrow buttons so that the frame is just visible. This will give you a full-format picture.

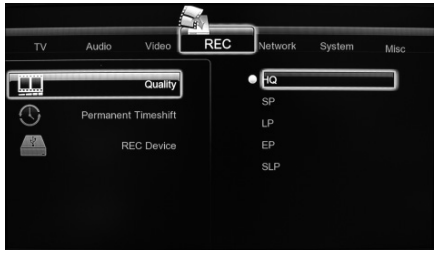
3.3.9 Seamless playback

Enables playback of all files in one folder.

3.4 Changing Record Settings

3.4.1 Quality

Select to set the default recording quality setting.



Press the **UP / DOWN** button to select the quality setting you require.The highest quality setting is HQ which requires the most storage space. The other settings reduce recording quality sequentially but also require less storage space.

3.4.2 Permanent Timeshift

Select to set Time Shift mode.
Press the **UP / DOWN** button to select from On and Off.
Press the **ENTER** button to confirm. If On, the time shift will start automatically while in Video In mode.

3.4.3 REC Device

Select to set device to restore the recorded files.
Press the **UP / DOWN** button to select from HDD and USB.
Press the **ENTER** button to confirm.

3.5 Changing Network Settings

Use this menu to configure Ethernet and WLAN (Wireless Local Area Network) settings.

3.5.1 Wired LAN Setup

DHCP IP (Auto)

Select to obtain IP address automatically. Typical situation: A household with an existing internet connection via a pre-configured DSL router. In this case, the DSL has an integrated DHCP service, which is pre-configured and working properly. In this case, you only need to select the item "DHCP Auto", the required IP will be found automatically on the network.

FIX IP (MANUAL

Select to manually input the IP Address, Subnet Mask, Default Gateway, and DNS Server IP Address.

If you intend to have MS 6 readily available via the network or if the automatic search is unsuccessful, the device should be assigned a fixed IP address.

An example: You assign – as described below – the IP address "192.168.46.2" to the MS 6. You can then access the device from any Windows PC by entering the line "\\192.168.46.2\" in the Windows Explorer and save and/or retrieve data.

Note: Entries in the Windows Explorer must be made in the format "\\<address>\" (see above for an example), in Internet Explorer, on the other hand, always make entries in the format "http://<Adresse>/" (in the example, therefore: "http://192.168.46.2/").

3.5.1.1 LAN Setup manually

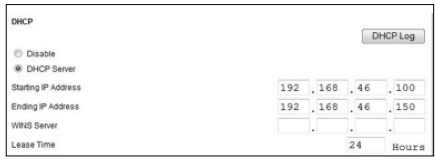
Note: While setting up your LAN / WLAN you will need a lot of data. We recommend to create a form in which you can input these data. Please refer to our example on page 26.

1. With your network-linked PC, click "Start" and "Run" (under Windows 7 click the field "Search programmes/ files"). Enter "CMD" and press ENTER – the black window "Command prompt" will appear on the screen.
2. Enter "ipconfig /all" (make sure there is a space between "ipconfig" and "/all") and press ENTER. The PC's network configuration will appear.

Ethernet-Adapter LAN-Verbindung:
Verbindungsspezifisches DNS-Suffix:
Beschreibung. . . . . : Intel(R) 82567LM-3 Gigabit Network Connection
Physikalische Adresse . . . . . : 00-21-86-F9-02-C3
DHCP aktiviert. . . . . : Ja
Autokonfiguration aktiviert . . . : Ja
Verbindungslokale IPv6-Adresse . : fe80::a134:8ed5:272b:14d0%11(Bevorzugt)
IPv4-Adresse . . . . . : 192.168.46.102(Bevorzugt)
Subnetzmaske . . . . . : 255.255.255.0
Lease erhalten. . . . . : Freitag, 17. September 2010 10:01:33
Lease läuft ab. . . . . : Samstag, 18. September 2010 10:01:32
Standardgateway . . . . . : 192.168.46.254
DHCP-Server . . . . . : 192.168.46.254
DHCPv6-IAID . . . . . : 234889686
DHCPv6-Client-DUID. . . . . : 00-01-00-01-13-7B-3B-59-00-21-86-F9-02-C3
DNS-Server . . . . . : 192.168.46.254
NetBIOS über TCP/IP . . . . . : Aktiviert

3. Search for the entry "Standard gateway" (to do so, scroll the bar up) and enter the corresponding IP address in the form (see last page) – in our example "192.168.46.254", see the figure on the right, upper frame. You now know the IP address of your DSL router.
4. Also enter the address of your DNS server (see the second frame on the right) in the form.
5. Enter the previously determined router address ("Standard gateway") in Internet Explorer, in our example "http://192.168.46.254/"; then press ENTER – the log-on screen for your DSL router will appear.
6. Now enter the router access data (for this, consult the instructions of your router).

7. Open the configuration page for the router's network interface (in the example of a Netgear FVS124G, the item is called "LAN setup").
8. Search for the section "DHCP" in the middle of the screen, see the figure on the right.



9. Enter the start and end IP address of the DHCP range (see frame on the right) in the form

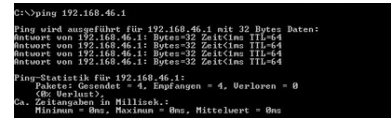
Please note: This concerns an IP address RANGE – which starts with the end number 100 and ends with 150. This range may be not be used for devices with fixed IP addresses.

10. Now close Internet Explorer.

Please note: ALL devices on your network must be turned on for the following tests, otherwise you may overlook an address that is already occupied.

11.) If you have other devices on the network, which use a fixed IP address (such as a NAS storage device, Playstation, printer etc.), please also enter these addresses in the form..
You have now completely documented your network configuration and know exactly, which IP address are already occupied and therefore may not be used for the Media Station 6

12. Select a free IP address, which is as low in the range as possible. All digits must match those mentioned above. Only the last group of digits may vary. In our example, we have decided on "192.168.46.2".
Proceed as follows in order to check whether a specific IP address is occupied or not:
(a) In our example, we are checking the IP address "192.168.46.1" by entering the command "ping 192.168.46.1" in the DOS window. After pressing ENTER, we receive a reply from our NAS device (see top right half of the screen).


C:\>ping 192.168.46.1
Ping wird ausgeführt für 192.168.46.1 mit 32 Bytes Daten:
Antwort von 192.168.46.1: Bytes=32 Zeit<1ms TTL=64
Antwort von 192.168.46.1: Bytes=32 Zeit<1ms TTL=64
Antwort von 192.168.46.1: Bytes=32 Zeit<1ms TTL=64
Antwort von 192.168.46.1: Bytes=32 Zeit<1ms TTL=64
Ping-Statistik für 192.168.46.1:
Pakete: Gesendet = 4, Empfangen = 4, Verloren = 0
(0% Verlust),
Ca. Zeitangaben in Millisek.:
Minimum = 0ms, Maximum = 0ms, Mittelwert = 0ms

The address is therefore occupied.
(b) Next, we proceed in the same manner for the address "192.168.46.2" and receive NO reply ("Target host is not available", see bottom right half of the screen).

C:\>ping 192.168.46.2
Ping wird ausgeführt für 192.168.46.2 mit 32 Bytes Daten:
Antwort von 192.168.46.102: Zielhost nicht erreichbar.
Antwort von 192.168.46.102: Zielhost nicht erreichbar.
Antwort von 192.168.46.102: Zielhost nicht erreichbar.
Antwort von 192.168.46.102: Zielhost nicht erreichbar.
Ping-Statistik für 192.168.46.2:
Pakete: Gesendet = 4, Empfangen = 4, Verloren = 0
(0% Verlust),

This means that the address is free. Take note of it in the form under "MS IP address"

13. Now push the button "Setup" on the MS6 remote control and select the submenu "Network" – the entry for LAN setup is selected.
14. Press ENTER and select "Fixed IP (manual)" on the right, see section 3.5 on page 22 of the instructions.
An input mask will appear on the right, where you can enter the IP addresses you determined as listed on the right. If necessary, push ">" to move the cursor..

15. Once you have entered all addresses, press ENTER and confirm the save operation. The connection is then tested automatically and the MS 6 IP address you selected appears, if successful, as an entry on the right next to the item "LAN setup".

3.5.2 WLAN network connection and setup

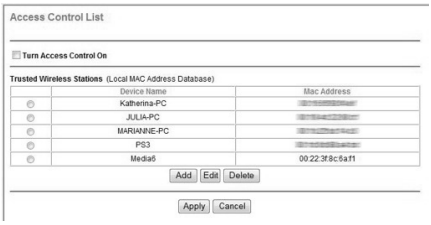
If you have secured your wireless network twice (encryption AND MAC address filtering), you have to perform the following important steps (see MAC filtering below). If you do not use any address filtering, you can continue with thee section "Performing WLAN settings" further down and skip the next section.

Note:

- Please note that, other than indicated on the bottom border of the menu, the middle button in the circle on the remote control is the ENTER button (OK) and the "Return X" button on the top right skips back (corresponds to "Cancel").
- With many conventional DSL routers, the WLAN antenna (WLAN access point) is integrated (please consult the operating instructions for the DSL router). If this is the case, the IP address of the DSL router and the WLAN access point are identical (standard gateway, see above).
- If your router does not have an integrated WLAN access point, you must purchase a separate device. In our example, we assume that the DSL router and the WLAN access point are two different devices each with their own respective IP address: The DSL router has the address 192.168.46.254 and the WLAN access point has the address 192.168.46.253.

3.5.2.1 MAC filtering

MAC filtering is a function of your WLAN access point, which ensures that only shared network devices are able to operate on the wireless network. If you want to protect your WLAN in this way, you will need the MAC address of your WLAN USB stick (see the sticker included with the stick). The MAC address is a string that consists of six character pairs which are separated by a colon. The numbers 0 to 9 and the letters A to F are used.
Each network component is uniquely identified with such a number (there are no two devices with the same MAC address). In our example, the MAC address for the WLAN stick is 00:22:ef:8c:6a:f1. You now have to report this identifier to the WLAN access point.



To do so, you have to call the IP address of the WLAN access point in Internet Explorer (as described in section II 2.a) – in our example the address is "http://192.168.46.253/". Log on and search for the entry "Access Control" in the WLAN settings (see figure below – depending on the manufacturer, the menu item may also have a different name). Open the sub-menu and click "Add". Enter a name for the device in the new window. Enter the MAC address and then confirm with "Add". The window closes and the new entry appears in the list (see figure below). You can now close the configuration window in Internet Explorer – Your MS6 is now registered with the WLAN access point.

3.5.2.2 Performing WLAN settings

1. First plug the enclosed "Wireless USB adapter" into one of the USB ports on the side.
2. Under the item "Network" in setup, select the item "WLAN setup" and press ENTER.
3. Now select the profile "Connection1".

3.5.2.3 Connection modes

Three connection modes are available:

– **Infrastruktur (AP):** In this mode, network devices such as the MediaStation 6 or notebooks (also referred to as WLAN clients) can be connected to a wireless radio receiver (WLAN access point). A hierarchical network structure is created as a result. This infrastructure may, among other things, comprise a DSL router (which establishes the connection to the internet) and a network printer or NAS storage device for shared use. This is the most common connection mode, which we also recommend. Disadvantage: You will need a dedicated radio receiver.

– **Peer to Peer (Ad Hoc):** In this mode, a direct connection between individual devices is established – there is no central management point. All participants have equal rights. This mode is very often used for WLAN parties, where there is no wish for a fixed infrastructure. We do not recommend this mode because central control is not possible: If communication fails, troubleshooting is very difficult. Advantage: No additional hardware is needed.

– **WPS (AP):** This mode facilitates adding new network devices to an existing wireless network. There are two methods for achieving this:
PBC (Push Button): The WLAN access point and the device to be connected have a mechanical button or corresponding software function, which initiates the connection. If this function is activated, the WLAN client has two minutes to establish a connection to the network.
PIN (Pin Code): Each WLAN client (in our case the MediaStation 6) has a multi-character code (PIN). This PIN must be provided to the WLAN access point (see the operating instructions for the WLAN access point).

4. Now select the desired connection mode – we recommend "Infrastructure (AP)" – and confirm with ENTER.

3.5.2.4 Infrastructure (AP):

- First of all, you have to select a wireless network that you wish to use for the connection with the MS6. You can do this both automatically and manually
  – **Automatically:** Select the entry "Automatically" and confirm with ENTER in order to automatically search for available wireless networks. After a few seconds, a list of the available networks will appear. Select the desired network and press ENTER.

– **Manually:** If you have configured your WLAN to not send its SSID (SSID broadcast is deactivated – the automatic search returns no result), you have to use the manual search. For this, select the entry "Manually" and confirm with ENTER. Then enter the SSID for your network with the on-screen keyboard (see figure on top of page 24 of the operating instructions – be sure to consider small/capital letters) and confirm with the OK button.

3.5.2.5 Peer-to-Peer WLAN:

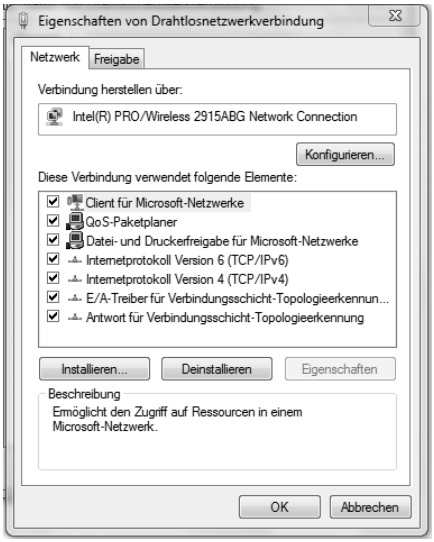
Preparatory steps: Before starting the actual configuration you will need to set the IP addresses (as in the infrastructure mode). In peer-to-peer mode there is no way to automatically distribute the IP addresses (DHCP). Instead, you will need to assign IP addresses to the devices concerned. In our example we create a connection between a notebook and the MS 6. The notebook will be given the address 192.168.46.81 and the MS6 will be given the address 192.168.46.2. The section on cable networking already explains which IP addresses are free and may be used.

Follow the steps below to assign your PC a manual IP address in Windows 7: :

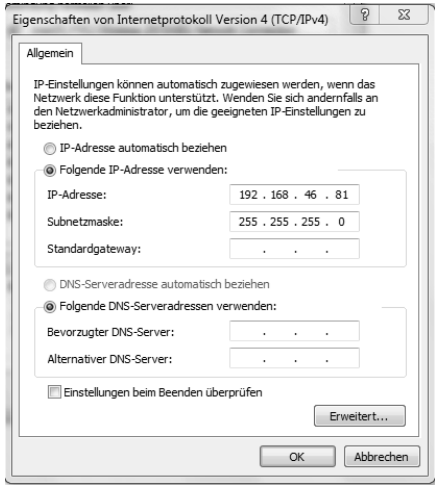
1. Right click the network environment (alternatively: Control Panel-> Network and Sharing Centre).

2. In the navigation pane on the left, click Change Adapter Settings.

3. Double click the option Wireless Network Connection.



4. Double click the option Internet Protocol Version 4 (TCP/IPv4).
   Enter the IP address of the PC here. Since we have no connection to the Internet we do not need to enter anything under Standard Gateway or DNS Server Addresses.



5. Confirm twice with OK, then click Close and also close the last 2 windows.

3.5.2.5.1 Follow the steps below to configure the MS 6 for peer-to-peer operation

1. Press the SETUP button on the MS 6 remote control
2. Then select the menu option Network and highlight the submenu WLAN setup.
3. Select a free connection profile (e.g. Connection 2). Then highlight the option Peer-to-Peer (Ad Hoc) and press ENTER to confirm.
4. If you want to give your network a name of your choosing you can do so in the field WLAN SSID (in our example: MS 6).
   NOTE: Please do not use special characters
5. You can switch encryption on (Shared Key (WEP)) or off (Open System) under WLAN Security. Recommended: Shared Key (WEP). Now enter the key – it should consist of at least 8 characters, including letters and numbers.
   NOTE: Please do not use special characters.
6. Confirm the entered key with OK (Open), NOT with OK (SKey).

Now you can give the MS 6 an IP address of your choosing:

7. Under Host IP Address enter the desired address (in our example 192.168.46.2) and confirm with OK.
8. Save the network settings by pressing the Play/Pause button on the MS 6 remote control.
   After a few seconds the device will display the current network settings on the screen.

3.5.2.5.2 Follow the steps below to connect your PC with the MS 6

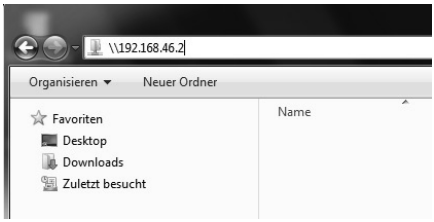
1. Click the wireless network symbol, bottom right.

2. From the list of available wireless networks, select MS 6. Then click the Connect button.
   After a few seconds the system will ask for the encryption key.
3. Enter the key set previously – capitalisation is important. Confirm with OK.
   NOTE: Please take note of the various network symbols in the figure above. The networks NL_WLAN0 and NL_WLAN2

are infrastructure networks (see section 3.5.2.4). Only the entry MS 6 is an Ad-Hoc network.

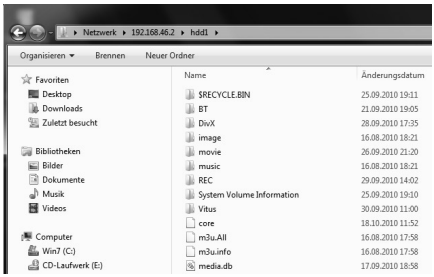
3.5.2.5.3 Please follow the steps below to access the hard drive of your MS 6

1. Open Windows Explorer.
2. In the address line enter the IP address of the MS 6 (in our example 192.168.46.2) and confirm with ENTER.



After a few seconds the MS 6 hard drive will appear on screen

You can now navigate the content of the MS 6 just like you can with any other hard drive.



NOTE: "Open System" mode is not recommended as communication with a WLAN device may be listened to.

3.5.2.6 WLAN Security

There are four methods for securing your wireless network:

– **Open System:** The wireless network is unprotected – the data transfer is not encrypted in any way. We do not recommend this mode.

– **WEP (HEX):** WEP encryption is the oldest technology available today and not considered secure – for this reason, you should rather select WPA encryption (see next item). First, enter the key which is stored in the WLAN acccess point in hexadecimal format (HEX). Then click "OK (Open)" if this is an open network or click "OK (SKey)" if the network works with a shared key.

– **WPA Key:** Enter the encoding key (also referred to as a passphrase) which you have saved to your WLAN access point with the on-screen keyboard (top figure on page 24 of the instructions). Pay attention to small/capital letters. Confirm with OK.

– **WEP (ASCII):** This mode is identical to WEP (HEX). However, the key consists of letters, numbers and special characters instead of hexadecimal code. Confirm with OK.

1. Select the encryption method programmed in your WLAN access point. Consult the corresponding operating instructions for details on this.
2. Next you have to specify whether your MS6 is assigned an IP address automat-

ically or manually. A detailed description of this is provided in section LAN connection above.
If you have configured all settings, they are verified and saved by the MS6. The network menu will appear on the screen again – the active network configuration is indicated with an asterisk "*".

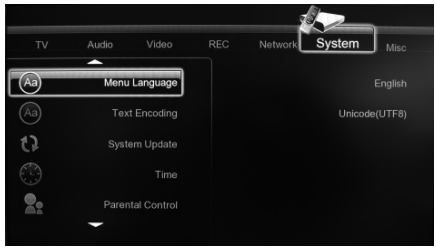
3.5.3 Network Addresses

MediaStation 6 IP-Adresse:	
Subnetzmaske:	255.255.255.0
Standardgateway:	
DNS-Server-IP-Adresse:	
DHCP-Startadresse:	
DHCP-Endadresse	

Other network devices:	

3.6 Changing System Settings

Use this menu to configure system settings



3.6.1 Menu Language

Select to choose the OSD (On-Screen Display) language.

3.6.2 Text Encoding

Select to set the text encoding option (subtitle display).

3.6.3 Login Control

Select to turn on / off password protect for the Web server (Neighbor Web).

3.6.4 System Update

- Select Extension Package Upgrade to update extension files for BT download and SAMBA services.
- Select system upgrade to update the firmware via a USB stick.
  1) Copy 'install.img' to the root directory of a USB stick, and connect it to the USB HOST port of the player.
  2) Press ENTER to confirm.

3.6.5 Time

• Select to set the system time.

• Press the **UP / DOWN** button to select from Manual and Auto (via TV). Press the **ENTER** button to confirm.

Manual

1. Press the **left / right** button to select each field and the **UP / DOWN** button to adjust each setting.
2. Numeric buttons are available here. Press the **ENTER** button to confirm.

3.6.6 Parental Control

1. Select to set the TV parental control options.
   A password will be needed for the modification. The default one is '0000'.
2. Press the numerical buttons to input, and the **ENTER** button to confirm.

3.6.6.1 Lock system

• Press the **UP / DOWN** button to turn on or off the parental system.
Press the **ENTER** button to confirm.

3.6.6.2 Region

• Press the **UP / DOWN** button to select the region.
Press the **enter** button to confirm.

3.6.6.3 Password

• Press the numerical buttons to input and change the password.
Press the **enter** button to confirm..

3.6.6.4 Block unrated TV

• Press the **UP / DOWN** button to turn on or off.
Press the **enter** button to confirm.

3.6.6.5 DVD Rating

• Press the navigational buttons to select.
Press the **enter** button to confirm, and the **RETURN** button to exit.

3.6.6.6 TV Rating

Press the navigational buttons to select. Press the **enter** button to confirm, and the **RETURN** button to exit.

3.6.7 Automatic DVD playback

External USB/DVD drives automatically begin playback once a medium is inserted.

3.6.8 Angle symbol

If this option is activated, a camera symbol will appear during DVD playback when a movie scene can be viewed from different perspectives.

3.6.9 HDD Format

• Select to format the built-in HDD.
Note: Please take care that all data on the hard disk will be removed after formatting.

3.6.10 System Info

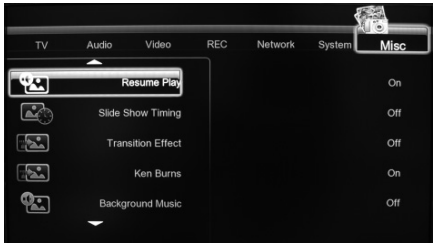
- Select to view system information (firmware version, HDD info, Mac address, etc.)

3.6.11 Restore Default

- Select to restore factory defaults

3.7 Miscellaneous

- Use this menu to adjust miscellaneous settings.



3.7.1 Resume Playback

- Select to turn on / off resume playback (auto-bookmarking) feature for movies.

3.7.2 Slide Show Timing

- Select to set the interval time for photo slide show.

3.7.3 Transition Effect

- Select to set the transition effect for photo slide show.

3.7.4 Ken Burns

Set this menu item to "ON" to enable a smooth cross fading of images during a slide show (Ken Burns effect).

3.7.5 Background Music

- Select to set the background music options while view pictures: Off / Folder / Playlist

3.7.6 Screen Saver

- Select to turn on / off screen saver.

3.7.7 Movie Preview

- Select to turn on / off movie preview in the browser menu.

3.7.8 Subtitle on / off

- Select to turn on / off subtitle.

4. MAIN Menu

4.1 DTV-Menu

In this menu, you can watch and record Digital Terrestrial TV programs, or have the time shift function.
To enter the DVB-T TV mode, select the DTV icon on the main menu (button **HOME**).
The following are some functional buttons on the remote control available when watching Digital TV programs.

Name	Function
ENTER	Press to view the program list menu.
UP / DOWN	Press to switch channels. (Channels cannot be switched in the recording mode.)
numeric buttons	Press to input channel numbers. Press the **ENTER** button to confirm.
REC	Press to start recording the current TV program.
time shift	Press to activate the time shift function.
subtitle	Press to activate the subtitle list menu if available.
EPG	Press to activate the EPG menu if available.
TTX	Press to activate the Teletext menu if available.
zoom	Press to zoom out the image.

4.1.1 Watching DVB-T Programs

4.1.1.1 Program List Menu

- Press the **ENTER** button when watching DVB-T TV programs, and the program list menu where you can see the program number and name will be displayed.

All the TV and Radio programs will be listed on this list.

- Press the **UP / DOWN** button to select channels
- Press the **ENTER** button to confirm.
- Press the **PREV / NEXT** button to page up /down.

4.1.1.2 Info Bar

- While switching channels by the **UP / DOWN** button, an info bar will be displayed to show the channel information.

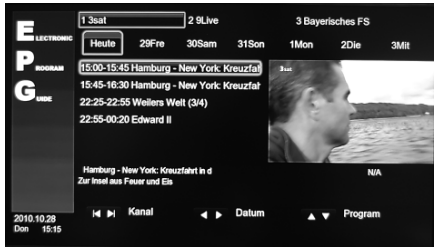
There're 4 strings displayed on the bar. Taking the info bar in the above photo for example:

N/A – Stands for TV rating;
GER – Stands for the voice language;
SS – Stands for subtitle;
TT – Stands for Teletext;
576 – Stands for resolution (SD - Standard Definition, HD – High Definition).

When the string looks concave, the option will be available.

4.1.1.3 Electronic Programming Guide (EPG)

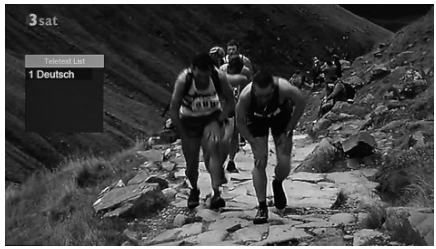
- Press the **EPG** button when watching DVB-T TV programs, the Electronic Programming Guide will be displayed.



- Press the **PREV / NEXT** button to change channels.
- Press the **left / right** button to change date.
- Press the **UP / DOWN** button to change program.
- Press the **red** button to add / delete scheduled recording.

4.1.1.4 Teletext-Menu

- If the broadcasted stream supports Teletext, press the **TTX** button to **ENTER** the Teletext menu.



- Press the navigational and numeric buttons to view the content in the Teletext menu.

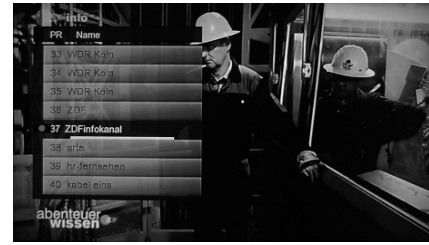
4.1.1.5 Subtitle List Menu

- Press the **subtitle** button when watching DVB-T TV programs, the Subtitle List menu will be displayed.

- Press the **UP / DOWN** button to select the subtitle, and press the **ENTER** button to confirm

4.1.2 DVB-T Program Recording

- Press **REC** button to start the recording, recording files are automatically stored in a folder named REC by default.



When recording is running, you can get the program list by pressing the **ENTER** button,

4.1.3 Time Shifting

Time shift function allows you to pause live TV and resume the program from the point you left it. While paused, the program is recorded to the internal HDD as long as the space is available.

1. Press the **TIME SHIFT** button to active time shift function.
2. Press **PLAY** button to resume the program. Time shift mode remains active until you press the **STOP** button

4.2 AV IN Menu

In this menu, you can watch and record audio-visual signal from the A/V IN jack on the rear panel of the unit, or have the time shift function.

- Select the A/V In icon on the main interface to enter this menu.

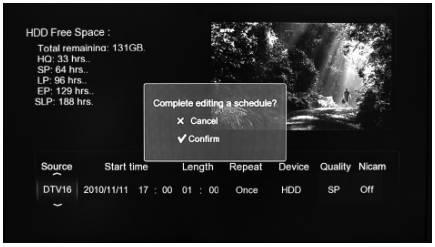
4.3 Timer Record Menu

The Timer Record menu allows you to create, edit and delete recording schedules and view all schedule status and history. Select the **TIMER REC** icon on the main menu to enter this menu.

4.3.1 Create a New Schedule

1. Press the **left / right** button on the remote control to select the **Edit** tab from the menu bar.
2. Select **Add a New Schedule** and press the **ENTER** button. The schedule setting screen appears.

3. Use the **left / right** button on the remote control to move between fields and press the **UP / DOWN** button to adjust each setting.
4. Press the **ENTER** button when finished and choose ✓ **Confirm**.

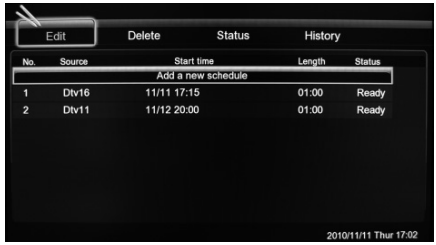


Name	Funktion
Source	Select the video source or TV channels for the recording.
Start Time	Enter the date and time of the recording.
Length	Enter the length of the recording
Repeat	Select how often you want the schedule to record. Choose from **Once**, **Everyday**, **Mon-Fri**, **Mon-Sat** or for an individual day of the week.
Device	Select the device for the recording: **HDD**, **USB4**, **USB3**, **USB2**, **USB1** und **USB**.

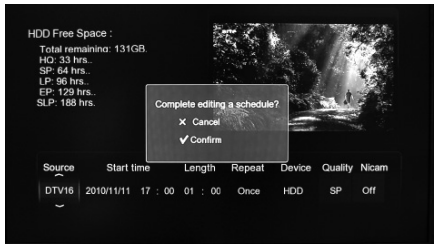
Name	Funktion
Quality	Select the recording quality. Choose from HQ, SLP, EP, LP and SP. The higher the quality, the more space required on the hard drive. See HDD Free Space on the left of the screen for details of how long you can record for using each setting.
Preview	This small preview window will show the current program of the selected channel.

4.3.2 Edit Schedule

1. Press the **left / right** button on the remote control to select the Edit tab from the menu bar.



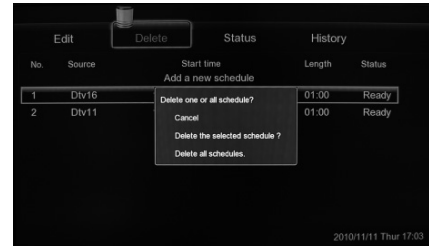
2. Select the schedule you want to edit from the list and press the **ENTER** button. The schedule setting screen appears.



3. Modify the schedule as described in '4.3.1 Create a New Schedule'.

4.3.3 Delete Schedule

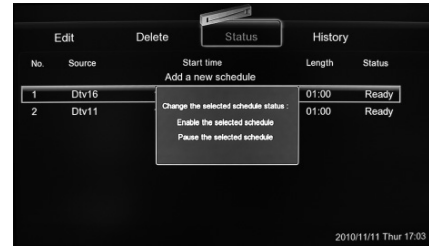
1. Press the **left / right** button on the remote control to select the **Delete** tab from the menu bar.
2. Select the schedule you want to delete and press the **ENTER** button. A confirmation message appears.



3. Select CANCEL, Delete the selected schedule, or Delete all schedules. Press the **ENTER** button to confirm.

4.3.4 View Schedule Status

1. Press the **left / right** button on the remote control to select the Status tab from the menu bar. The schedule list is displayed.
2. Select a schedule and press the **ENTER** button.

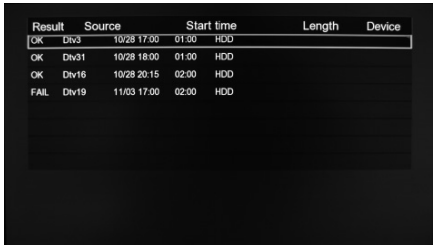


3. Select Enable the selected schedule or Pause the selected schedule.
4. Press the **ENTER** button to confirm.

4.3.5 Viewing Recording History

- Press the l**eft / right** button on the remote control to select the History tab from the menu bar.

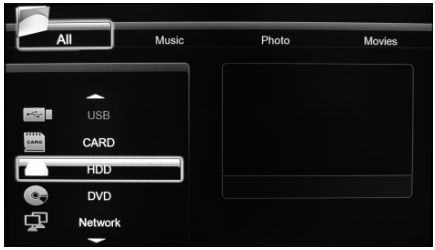
Here you can view a complete history of all recordings that were set.


Result Source Start time Length Device
OK Dtv3 10/28 17:00 01:00 HDD
OK Dtv31 10/28 18:00 01:00 HDD
OK Dtv16 10/28 20:15 02:00 HDD
FAIL Dtv19 11/03 17:00 02:00 HDD

4.4 Browser Menu

The browser menu allows you to browse and play media files stored on Removable Devices (USB, Card), HDD, Network, UPnP-server, and Playlist.

- To enter the menu, select the Browser icon on the home screen, or press the **BROWSER** button on the remote control.



The following buttons can be used while navigating the browser menu.

Button	Function
UP / DOWN	Move cursor **UP / DOWN** to select devices, folders, or files.
LEFT / RIGHT	Select filter options: All, Music, Photos, and Movies.
PREV / NEXT	Go to previous / next page.
ENTER	Enter or confirm the selected item.
RED	Select files under Browser -> HDD menu.
GREEN	Add the selected files to the playlist.
RETURN	Return to the previous menu.

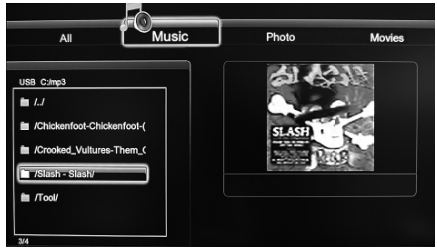
4.4.1 Browsing All

In this mode, all folders and supported contents (music, photos, and movies) will be displayed.

Note: Muisc tracks might not be able to played continously under All filter, please switch to the Music filter instead.

4.4.2 Browsing Music

In this mode, all folders and supported audio files in current directory will be displayed.



The following buttons can be used to control music playback.

Button	Function
PLAY/PAUSE	Begin/pause playback.
FR / FF	Fast rewind or fast forward. Press repeatedly to select the speed.
REPEAT	Set repeat options: One, All, (and Shuffle).
INFO	Hide or display the information bar during playback.
STOP	Stop playback.

4.4.3 Browsing Photos

In this mode, all folders and supported image files in current directory will be displayed.

The following buttons can be used to control photo playback.

Button	Function
PLAY	Begin playback.
PREV / NEXT	View the previous or next photo.
LEFT / RIGHT	Rotate photo.
REPEAT	Set repeat options: One, All, (and Shuffle).
ZOOM	Zoom the image.
INFO	Hide or display the information bar during playback.
STOP	Stop playback.

You can view photos in slide show mode with background music. When it is enabled, the slide show starts automatically once you press **PLAY** button. (Please refer to Slide Show Timing, Transition Effect, and Background Music in chapter '3.7 Miscellaneous' for more details)

4.4.4 Browsing Movies

In this mode, all folders and supported video files in current directory will be displayed.

The following buttons can be used to control video playback.

Button	Function
PLAY/ PAUSE	Begin/pause playback.
SLOW	Play video in slow motion. Press repeatedly to select the speed.

Button	Function
FR / FF	Fast rewind or fast forward. Press repeatedly to select the speed.
PREV / NEXT	View the previous or next movie.
REPEAT	Set repeat options: One, All, Off.
ZOOM	Zoom the image.
INFO	Hide or display the information bar during playback.
GOTO	Display playback search menu.
A-B	Set the beginning and end points of a section to repeat.
ANGLE	Change the view angle during DVD (with multi-angle) playback.
MENU	Return to the root menu during DVD playback.
AUDIO	Select an audio track while watching DivX video or DVD with multiple audio tracks.
SUBTITLE	Set subtitle options. You can change text encoding and the size/color/offset of the subtitle here.
STOP	Stop playback.

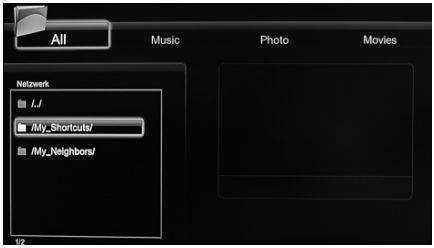
4.4.5 A/V Streaming via Network

You can stream the media files shared on the home network (Ethernet or WLAN). Please refer to '3.4 Changing Network Settings' for details about network settings.

There are two ways to locate media files shared on your local network in the Network menu. One is to browse through workgroup; the other way is to browse through '**My_Shortcuts**'.

4.4.5.1 Browsing though Workgroup

You can choose the workgroup which your PC belongs to from the workgroup list, find your PC name, and press the **ENTER** button to confirm. Then you can select and play the shared media files that you want to browse



Note:

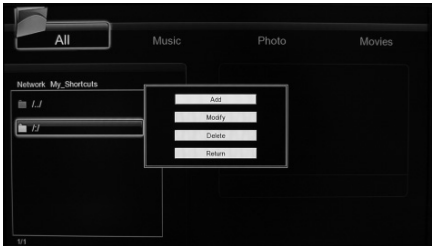
– While browsing high definition video files (resolution up to 720p / 1080i / 1080p) via Ethernet or WLAN, the video might be buffering. It is normal due to the limit of network speed or signal strength.

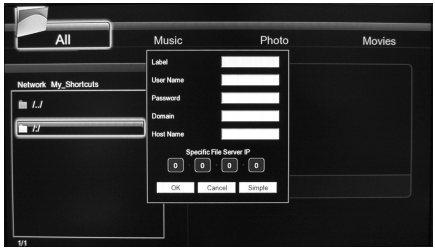
– Dueent network conditions, sometimes the workgroup might not be accessed or shown in the list. And then you need to use 'My_Shortcuts' to browse shared files.

4.4.5.2 Browsing though 'My_Shortcuts'

You can also set '**Specific File Server IP**' and access it from '**My_Shortcuts**' in the menu.

1. Press the **MENU** button and a popup menu appears.





2. Select **Add** to open a popup menu where you can input **Label**, **Net User ID**, **Net Password**, **Domain**, **Host Name**, and **Specific File Server IP**.
3. Select **OK** to confirm, **Cancel** to cancel, and **Simple / Detail** to switch between simple and advanced options.
4. Select the shortcut you added and press the **ENTER** button to confirm. Then you can select and play the shared media files on the destination computer.

4.4.6 A/V Streaming via UPnP-server

A built-in UPnP (Universal Plug and Play) client has been integrated on the system, which enables the player to auto-detect UPnP Media Servers on the network to browse and stream media files from them.

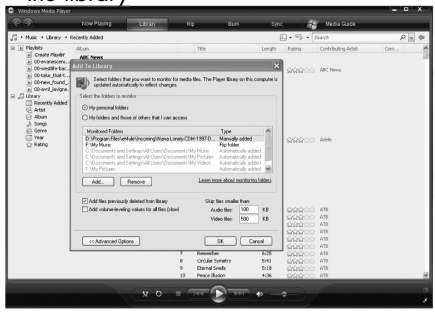
4.4.6.1 Installing UPnP Media Server on your PC

There're a lot of free and commercial UPnP Media Server software, such as Windows Media Connect, Windows Media Player 11, XBMC Media Center (Linux/Mac/Windows), MediaTomb (Linux), etc. Please install one of them on you computer. In the following chapters, we will take Windows Media Player 11 on Microsoft Windows XP SP2 for an example.

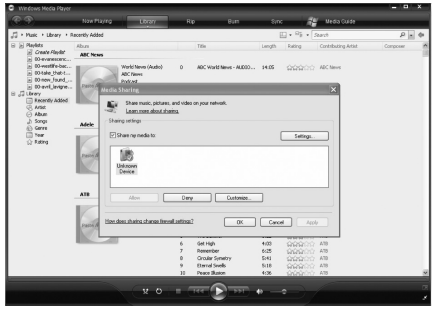
4.4.6.2 Sharing Media on your PC

The Media Sharing feature of Windows Media Player 11 lets you enjoy the contents of your Windows Media Player library from anywhere in your home.

1. Open Windows Media Player 11, click **Library** -> **Add Library** -> **Advanced Options** to add or remove media files from the library

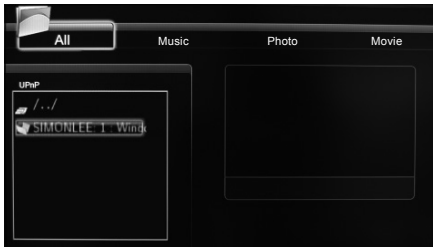


2. Click **Library** -> **Media Sharing**, then you can allow or deny devices to access the media library.
   Click Allow to authorize your player.

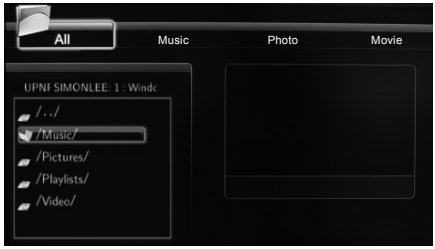


4.4.6.3 Streaming Media on your Player

1. Connect your player to the home network (LAN or WLAN).
2. Visit **Browser** - > **UPnP** menu on the player, select the UPnP-server, and press **ENTER**.



3. Then you can browse the media library shared by Windows Media Player 11.



Note:

– Make sure your player and your computer are on the same local area network and subnet.

– Firewalls may prevent your player to communicating with your computer. Please open the ports manually and add your player to the 'trusted' list, or disable the firewall temporarily.

4.4.7 Renaming / Deleting Files

When navigating in the browser menu, you can press the **MENU** button to activate a popup menu where you can rename and delete files or folders.

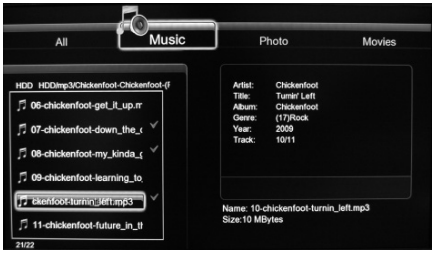
4. Press the **UP / DOWN** buttons to select from Return, Rename, and Delete.
5. Press **ENTER** to confirm.

4.4.8 Managing the Playlist

This player supports the playlist function, which allows you to add your favorite contents on local HDD to the playlists (All, Music, Photos, and Movies), and enjoy them at any time.

4.4.8.1 Adding files to the playlist

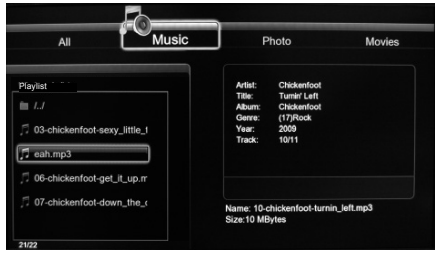
1. Select the favorite file you wish to add, press the **RED** button, and the file will be ticked.



2. Press the **GREEN** button to confirm, and then an on-screen message '**Add selects to list**' will be shown. Multiple selections are allowed.

4.4.8.2 Browsing the playlist

1. Press the **UP / DOWN** buttons to select **Play** List in the **browser** menu.
2. Press the **LEFT / RIGHT** buttons to select between **All**, **Music**, **Photos**, and **Movies**.
3. Press the **ENTER** button to confirm. Then you will enter the playlist.



4. If you wish to delete a file from the playlist, press the **RED** button to select, and then press the **GREEN** button to confirm.

4.5 Media Library

Owning to a powerful search engine, the library menu allows you to search and browse multimedia files stored on the internal HDD in most easy ways. To enter this menu, select the Library icon on the home screen.

4.5.1 Music library

1. Use the **left / right** button on the remote control to select the **Music** tab.

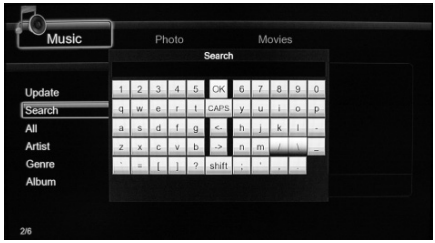
2. Press the **UP / DOWN** button to select from **Update**, **Search**, **All**, **Artist**, **Genre**, and **Album**.
3. And press the **ENTER** button to confirm.

4.5.1.1 Update

- Select to update and synchronize all the music stored on the internal HDD to the library.

4.5.1.2 Search

- Select to search for music files by their names.



1. Use the navigational buttons to select, and press the **ENTER** button to confirm.
2. Select **OK** and press the **ENTER** button, and then the files you desired will be displayed on the screen.

4.5.1.3 All

- Select to list all the music files in the library.

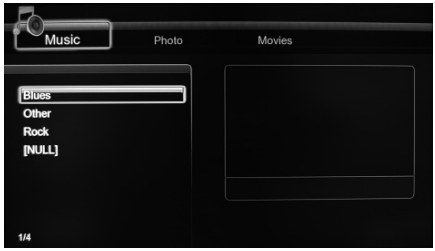
4.5.1.4 Artist

- Select to search for music files by artist.

1. Press the **UP / DOWN** button to select the **artist**.
2. Press the **ENTER** button to confirm.

4.5.1.6 Genre

- Select to search for music files by genre.



1. Press the **UP / DOWN** button to select the **genre**.
2. Press the **ENTER** button to confirm.

4.5.1.7 Album

- Select to search for music files by album.

1. Press the **UP / DOWN** button to select the **album**.
2. Press the **ENTER** button to confirm.

4.5.1.8 Quick-Search

You can also press the right button to turn on a Quick-Search bar while browsing music files in the library.

1. Press the **UP / DOWN** button to select characters on the Quick-Search bar.
2. Press the **ENTER** button to confirm. And then music files with name starting with the specific characters will be displayed onto the top.
3. Press the **left** button to delete characters, and press the **RETURN** button to close the Quick-Search bar.

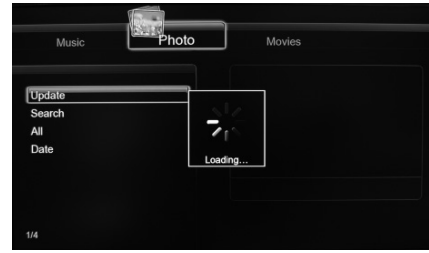
4.5.2 Photo Library

- Use the **left / right** button on the remote control to select the Photos tab.

- Press the **UP / DOWN** button to select from **Update**, **Search**, **All**, and **Date**. And press the **ENTER** button to confirm.

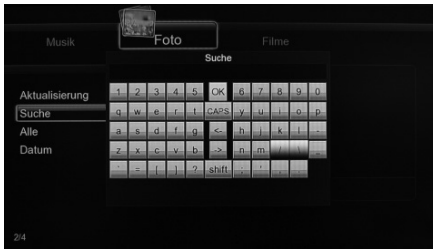
4.5.2.1 Update

- Select to update and synchronize all the photos stored on the internal HDD to the library.



4.5.2.2 Search

- Select to search for photos by their names.



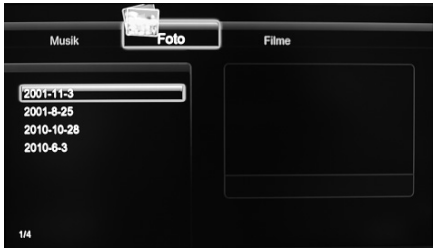
1. Use the navigational buttons to select,
2. Press the **ENTER** button to confirm.
3. Select **OK** and press the **ENTER** button, and then the files you desired will be displayed on the screen.

4.5.2.3 All

- Select to list all the photos in the library.

4.5.2.4 Date

- Select to search for photos by date.



1. Press the **UP / DOWN** button to select the date, and press the **ENTER** button to confirm.

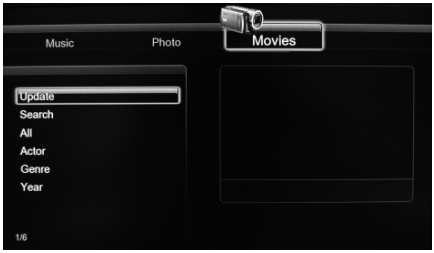
4.5.2.5 Quick-Search

You can also press the right button to turn on a **Quick-Search** bar while previewing photos in the library.

1. Press the **UP / DOWN** button to select characters on the Quick-Search bar.
2. Press the **ENTER** button to confirm. And then photos with name starting with the specific characters will be displayed onto the top.
3. Press the **left** button to delete characters.
4. Press the **RETURN** button to close the Quick-Search bar.

4.5.3 Movie Library

- Use the **left / right** button on the remote control to select the **Movies** tab.



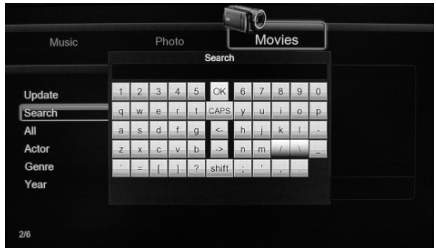
- Press the **UP / DOWN** button to select from **Update**, **Search**, **All**, **Actor**, **Genre**, and **Year**. And press the **ENTER** button to confirm.

4.5.3.1 Update

- Select to update and synchronize all the movies stored on the internal HDD to the library.

4.5.3.2 Search

- Select to search for movies by their names.



1. Use the navigational buttons to select, and press the **ENTER** button to confirm.
2. Select **OK** and press the **ENTER** button, and then the files you desired will be displayed on the screen.

4.5.3.3 All

- Select to list all the movies in the library.

4.5.3.4 Actor

- Select to search for movies by actor.

1. Press the **UP / DOWN** button to select the **actor**.
2. Press the **ENTER** button to confirm.

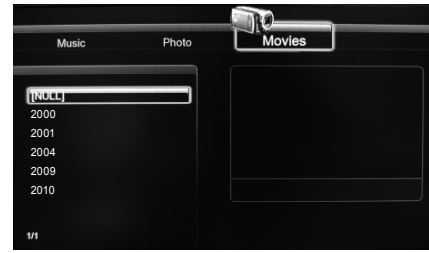
4.5.3.5 Genre

- Select to search for movies by genre.

1. Press the **UP / DOWN** button to select the **genre**.
2. Press the **ENTER** button to confirm.

4.5.3.6 Year

- Select to search for movies by year.



1. Press the **UP / DOWN** button to select the **year**.
2. Press the **ENTER** button to confirm.

4.5.3.7 Quick-Search

You can also press the **right** button to turn on a **Quick-Search** bar while previewing movies in the library.

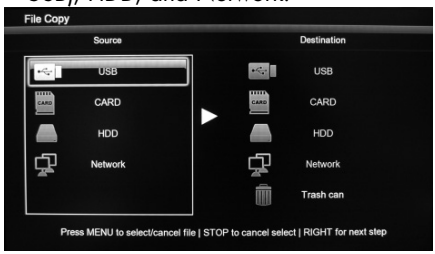
1. Press the **UP / DOWN** button to select **characters** on the Quick-Search bar, and press the **ENTER** button to confirm. And then movies with name starting with the specific characters will be displayed onto the top.
2. Press the **left** button to delete characters, and press the **RETURN** button to close the Quick-Search bar.

Note: In order to use the search function more efficiently, you are encouraged to use the following rules to name the movies stored on the internal HDD.

– Syntax: [Name][Actor][Genre][Year].extension
– Examples: [Enchanted.CD1][Amy Adams][Love][2007].avi, [The.Dark.Knight.CD1][Christian Bale][Action][2008].avi, etc.

4.6 File Copy Menu

- Select the **File Copy** icon from the home screen to enter the File Copy menu or press the **BROWSER** button on the remote control, which allows you to copy files between Removable Devices (Card, USB), HDD, and Network.



The following buttons can be used under the **file copy** menu.

Button	Function
UP / DOWN	Move cursor **UP / DOWN** to select devices, folders
RIGHT	Go to the next step.
MENU	Select (or cancel) folders or files (The selected items will be ticked).
STOP	Cancel all selections.
ENTER	Confirm the selected options.

Please refer to the following operations to copy / move folders / files between devices.

1. Select the source device and destination device.
2. Select the source files you want to copy.
3. Select the destination folder to store the above files.
4. Select Copy or Move to proceed.

4.7 P2P Share Menu

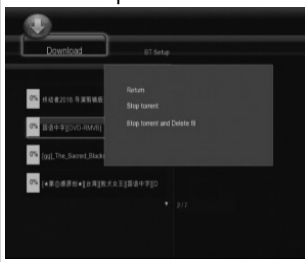
Select the **P2P Share** icon on the main menu. You can see the status of torrents download progress and configure the BT download settings in this menu. Press LEFT/RIGHT button to enter into download menu and BT setup menu.

4.7.1 Add a torrent

Locate your torrent file in Browser menu, then press **MENU** button to add the torrent to start downloading.

4.7.2 Download Menu

After add the BT torrent files, the download progress can be displayed in this menu.
The following buttons can be used under this menu:

Button	Function
UP / DOWN	Move cursor **UP / DOWN**.
MENU	Press to adjust the priority of the download task
PAUSE	Press to pause the download.
PLAY	Press to start download.
STOP	Press to stop the download. 
RETURN	Wechseln Sie zum vorherigen Menü zurück.

4.7.3 BT Setup Menu

In the BT Setup menu, you can configure the following settings. Use **UP/DOWN** and **ENTER** to change the settings.

– Set the maximum download rate.
– Set the maximum upload rate.
– Set the idle hours to start the next download automatically.
– Set the seeding hours.
– Set to delete the finished torrent files automatically or not.
– Set the maximum number of simultaneous download tasks.

4.7.4 Download

If you want to download the files from the BitTorrent network, you can also do so with the MS6:

1. For this, first activate the BT function (**Setup** -> **Settings** -> **Network** -> **BT to "On"**).
2. Then you can enter the IP address of the MS6 (e.g. "http://192.168.46.2") in Internet Explorer in order to access the web interface of Neighbor Web.
3. Then click the entry "BitTorrent Download" – the following mask will appear on the screen:

4. Download a BitTorrent file from the internet.
5. Then click "Add new Torrent".

Neighbor Web
Add new torrent
Step 1. Choose torrent file path from local PC.
Durchsuchen...
Step 2. Please confirm your selection
Yes
Confirm this action and return to BitTorrent download page
No
Do nothing and return to BitTorrent download pag

6. Click "Browse" – click the previously downloaded BitTorrent file. Then click "Yes" to start the download

4.8 IMS (Internet Multimedia Service) Menu

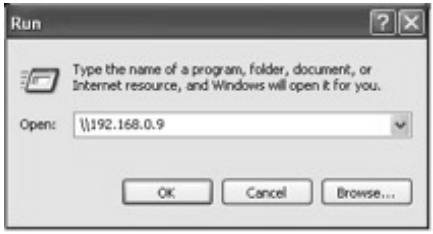
This feature is additional function. All contents and services under this feature are provided by third-party service providers, our company does not offer any contents and services of this feature and it not responsible for any contents and services provided under this feature. Our company is not responsible for any operational stability of the contents and services, for example, if you cannot access certain web site for video streaming or news broadcast, or the content of a web site has been changed etc, are all responsible and control by the third-party service providers. If you find that these features cannot operate properly, please contact our customer service or visit our company website to obtain the relevant information.

4.9 NAS Function

This player can be used as a NAS (Network-Attached Storage) device. It can be attached to the home network via either Ethernet or WLAN. This feature allows homes to store and retrieve large amounts of data more affordably than ever before.

Note: Please turn on the BitTorrent and SAMBA in the setup menu before using this function.

When the network connection is done correctly and ready for use, please turn on NAS function in the setup menu in advance (refer to 3.6 Changing System Settings for more details), and then type: \\IP Address in the Run window (click Run in the start menu) or the address bar of Internet Explorer on your PC (For example, if the IP address of the player is 192.168.0.9, please type: \\192.168.0.9), and click OK or press the Enter button on the keyboard.



Under windows vista and windows 7,pls type:\\192.168.0.9 on search bar, then press the **Enter** button on the keyboard.

Then you can view, and edit the files stored on the hard disk installed on the player. In this way, you can also playback and copy files via network between your PC and the player.

4.10 Host-Name

Here, you enter a name for the MS6 that makes the device visible on the network. This way, you can also enter the host name instead of the IP address when accessing the internal hard-drive: e.g. "\\MS6\" in Windows Explorer or "http://MS6/" in Internet Explorer.

5. Upgrading the Firmware

The firmware is the operating system (OS) installed on the device. Firmware upgrades can bring new features, improvements and bug fixes.

1. Copy 'install.img' or extension files to the root directory of a USB stick, and connect it to the USB HOST port of the player.
2. Press and hold the power / standby button on the front panel, and do not loosen.
3. Plug the power cable into the DC IN jack, wait for about 5 seconds or more, and then loosen your finger on the power / standby button;

Firmware installation will start. There is another way for upgrading. Please refer to System Update and Extension Info in chapter '3.6 Changing System Settings' for more details.

6. Appendixes

6.1 Specifications

Dimensions (W / H / D):	230 / 62 / 170 mm
Weight:	1,1 kg (without HDD)
Power pack	
Input:	100-240 V; 50 / 60 Hz; 0,8 A
Output:	12 V DC; 3,0 A

I/O INTERFACES SUPORTED

- 3.5'' SATA HDD
- USB 2.0 HOST port x 2 (compatible to USB 1.1)
- Memory Card slot (supports SD/MMC/MS/MS Pro)
- USB 2.0 DEVICE port (connecting to PC)
- Composite (CVBS) A/V IN jack
- Composite (CVBS) A/V OUT jack
- Component Y/Pb/Pr jack
- ANT.RF IN/OUT socket
- HDMI V1.3 interface
- S/PDIF coaxial & optical jack
- DC-IN 12V

SUBTITLE FORMATS SURPORTED

– SRT, SMI, SSA, ASS, IDX/SUB, SUB

NETWORK FEATURE

- 10/100Mbps Auto-Negotiation Ethernet
- 802.11b/g/n WLAN, up to 300Mbps (supported by optional WLAN USB Adapter)

VIDEO RECORDING

- DTV recording format: TS
- AV IN recording format: MPG (MPEG2, MP2)

Note: The specifications and design of this product are subject to change without notice.

6.2 Frequently Asked Questions

Question 1. *When I try to disconnect the USB device, I keep on getting "The device 'Generic volume' cannot be stopped right now. Try stopping the device again later." message, what should I do?*
Answer:
Close any program that might be accessing data on the player, including Windows® Explorer. If it does not work, close all programs and wait for another 20 seconds, then try the green arrow icon again. If it still does not work, you should shut down the player and disconnect the USB cable.

Question 2. *I find new file names and folder names that I never created before or they have strange gibberish names.*
Answer:
Most likely, the player's file allocation table (FAT) has been corrupted. This might be due to the player shutting down (due to low battery power) while reading or writing to your computer by the USB connection. Windows and Macintosh often write extra files to the hard disk such as finder.def or System volume info. These are normal and will not do any harm to the player.

Question 3. *I used my player to transfer files back and forth between different computers. Will defragmenting the player hard disk do any harm to it?*
Answer:
Defragmenting the player hard disk may be useful after having transferred many files to and from the player. It is never harmful to use the defragment on the player. Make sure no other programs are running while using the Windows® defragment utility. Make sure you have connected the player with the external power adapter during this procedure.

Question 4. *My files have disappeared from the player.*
Answer:
Make sure that you browse your files via the correct browser mode which means correct filtered views such as Photos, Music, or Movies.

Question 5. *During power on, why does the TV will have a short flashing, blue screen or screensaver?*
Answer:
This is normal, when the system initializes, it will setup the corresponding parameters so it can output the correct video signal to the TV, during the initializing time, the TV will receive incorrect signals or the signals will not be stable and will cause the TV screen to flash, some TV's will treat this as no signal, and will display a blue screen or screensaver.

Question 6. *Why when I switch to Y/Pb/Pr 480p, 576p, 720p, 1080i, and 1080p, does the TV screen display an unwatchable picture?*
Answer:
Please check if your TV supports Y/Pb/Pr 480p, 576p, 720p, 1080i, and 1080p output, if your TV does not support, please use the A/V signal display instead, press the TV SYSYEM button on the remote control, then switch the TV's video input to NTSC or PAL.

Question 7. *Why is there no sound on movie or music playback when using Y/Pb/Pr component output?*
Answer:
Y/Pb/Pr output is a video output only, and does not include sound signals. When using Y/Pb/Pr output, please plug the A/V OUT or the S/PDIF jack to output sound.

Question 8. *I cannot get SSID name, the screen always displays: 'Can't get any SSID!!'*

Answer:

When the WLAN USB Adapter is connected to the player, it needs some time to get initialized. Please wait for about 1~2 minutes and try refreshing the SSID list again.

Question 9. *I cannot see files shared on my computer via Browser->Network menu.*

Answer:

Please check following items:

1. Connect the player to network and obtain an IP address first;
2. Please enable NetBIOS of TCP/IP on computer;
3. Please check your PC's firewall settings;
4. Please enable your PC's 'Guest' account;
5. Please share the folders which you wish to browse on your PC, and make sure that 'Everyone' or 'Guest' has the right to access.

Question 10. *I configured everything correctly, but still cannot get the wireless network or UPnP function to work.*

Answer:

Are you using a firewall such as Norton Internet Security, McAfee Personal Firewall, Zone Alarm, etc. or even the built-in firewall of Windows XP? (Don't forget that Service Pack 2 for Windows XP automatically upgrades your firewall and turn it on by default)

If you have a firewall, it may need to be configured or have exceptions created to allow you to see and communicate with the player on the network. To test if your firewall is preventing network communication (including PING and access shared folders), try disabling it to see if you can connect. If you can connect with the firewall disabled, you may need to add the player to the 'Trusted' list or configure the firewall for local intranet access. Worst-case, disable your firewall long enough to use the player, then enable it again when done.

Question 11. *I am using the 802.11n Wi-Fi dongle with an 802.11n wireless router, why the speed is still 802.11g 54Mbps rather than 300Mbps?*

Answer:

The IEEE 802.11n Draft standard prohibits using high throughput with WEP or TKIP as the unicast cipher. If you use these encryption methods (e.g. WEP, WPA-TKIP), your data rate will drop to 54 Mbps. You may contact the Access Point or router manufacturer to download the latest firmware, or try other encryption methods (WPA2-AES or WPA2-TKIP), or choose to configure an unsecured profile, but this option is not recommended.

Question 12. *Why do some supported photo formats, cannot be shown in the photo function?*

Answer:

In the JPEG format there are different modes. The player doesn't support all the modes. So you have to change your photo format first as follow:

(1) Use Photoshop or similar software to open the photo;

(2) Choose "save as" from the menu and select the picture format as JPEG, input the file name and click the "save" icon;

Question 13. *Why couldn't the player find the hard disc?*

Answer:

Make sure the firmware is installed correctly, and no system partitions on the HDD were deleted. If hard disc failure occurs, please backup your data and reinstall the firmware.

Question 14. *Some functions like recording, time shift etc. do not work. What should I do?*

Answer:

If you find some functions do not work properly on the player, please change system settings to the default (Refer to 3.6 for changing system settings).

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Disposing of the unit

Used units must not be disposed of with household waste

If the unit is no longer operational, every consumer is required by law to dispose of used devices separate from household waste, e. g. at a collection point run by the communal authority borough. In this way, used devices can be recycled and waste materials disposed of in an environmentally friendly manner.
For this reason, electrical equipment is labelled with the displayed symbol

Batteries and rechargeable batteries

Batteries and rechargeable batteries must not be disposed of with household waste!

Every consumer is required by law to bring all batteries and rechargeable batteries, whether they contain harmful substances*) or not, to a collection point run by the communal authority or borough or run commercially, so that they can be disposed of in an environmentally friendly manner.
Please only hand in fully discharged batteries!

*) labelled: Cd = cadmium, Hg = mercury, Pb = lead

Teufel

For questions, suggestions or other issues please contact our customer service department:

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